

## Claims

- [c1] A flow control apparatus for a boiling water nuclear reactor steam dryer, the steam dryer comprising at least one discharge plenum, said flow control apparatus comprising:
- a support member;
  - a elongate perforated plate member, coupled to said support member; and
  - at least one positioning member coupled to said support member.
- [c2] An apparatus in accordance with Claim 1 further comprising at least one lip extending longitudinally along a first side of said perforated plate member, said lip extending substantially perpendicular to said perforated plate member.
- [c3] An apparatus in accordance with Claim 1 wherein said perforated plate member comprises a plurality of plate members.
- [c4] An apparatus in accordance with Claim 1 wherein said at least one positioning member also coupled to said perforated plate member.
- [c5] An apparatus in accordance with Claim 1 wherein each said at least one positioning member comprises a first portion and a second portion, said first portion coupled to said perforated plate member and said second portion extending from an end of said first portion at a substantially 90 degree angle.
- [c6] An apparatus in accordance with Claim 5 wherein said support member has a substantially L-shape and said second portion of said positioning end overlies a top surface of said support member.
- [c7] An apparatus in accordance with Claim 1 further comprising a first adjustable sealing member coupled to a first end portion of said perforated plate member and a second adjustable sealing member coupled to a second end portion of said perforated plate member.
- [c8] An apparatus in accordance with Claim 7 wherein said first and second sealing members are adjustable in the longitudinal direction so that said first sealing member is adjustable to extend past said first end portion of said perforated plate member and said second sealing member is adjustable to extend past said

second end portion of said perforated plate member.

- [c9] A steam dryer for a nuclear reactor, said steam dryer comprising:  
a plurality of dryer vanes;  
at least one discharge plenum; and  
a flow control apparatus comprising:  
a support member;  
a elongate perforated plate member, coupled to said support member; and  
at least one positioning member coupled to said support member.
- [c10] A steam dryer in accordance with Claim 9 wherein said flow control apparatus further comprises at least one lip extending longitudinally along a first side of said perforated plate member, said lip extending substantially perpendicular to said perforated plate member.
- [c11] A steam dryer in accordance with Claim 9 wherein said perforated plate member comprises a plurality of plate members.
- [c12] A steam dryer in accordance with Claim 9 wherein said at least one positioning member is coupled to said perforated plate member.
- [c13] A steam dryer in accordance with Claim 9 wherein each said at least one positioning member comprises a first portion and a second portion, said first portion coupled to said perforated plate member and said second portion extending from an end of said first portion at a substantially 90 degree angle.
- [c14] A steam dryer in accordance with Claim 13 wherein said support member has a substantially L-shape and said second portion of said positioning end overlies a top surface of said support member.
- [c15] A steam dryer in accordance with Claim 9 wherein said flow control apparatus further comprises a first adjustable sealing member coupled to a first end portion of said perforated plate member and a second adjustable sealing member coupled to a second end portion of said perforated plate member.
- [c16] A steam dryer in accordance with Claim 15 wherein said first and second sealing members are adjustable in the longitudinal direction so that said first sealing

member is adjustable to extend past said first end portion of said perforated plate member and said second sealing member is adjustable to extend past said second end portion of said perforated plate member.

- [c17] A steam dryer for a nuclear reactor, said steam dryer comprising:  
a plurality of dryer vanes;  
at least one discharge plenum; and  
a flow control apparatus comprising:  
a support member;  
a elongate perforated plate member, coupled to said support member;  
at least one positioning member coupled to said support member;  
at least one lip extending longitudinally along a first side of said perforated plate member, said lip extending substantially perpendicular to said perforated plate member;  
a first adjustable sealing member coupled to a first end portion of said perforated plate member; and  
a second adjustable sealing member coupled to a second end portion of said perforated plate member.
- [c18] A steam dryer in accordance with Claim 17 wherein said perforated plate member comprises a plurality of plate members.
- [c19] A steam dryer in accordance with Claim 17 wherein said at least one positioning member is coupled to said perforated plate member.
- [c20] A steam dryer in accordance with Claim 17 wherein each said at least one positioning member comprises a first portion and a second portion, said first portion coupled to said perforated plate member and said second portion extending from an end of said first portion at a substantially 90 degree angle.
- [c21] A steam dryer in accordance with Claim 20 wherein said support member has a substantially L-shape and said second portion of said positioning end overlies a top surface of said support member.
- [c22] A steam dryer in accordance with Claim 17 wherein said first and second sealing members are adjustable in the longitudinal direction so that said first sealing

member is adjustable to extend past said first end portion of said perforated plate member and said second sealing member is adjustable to extend past said second end portion of said perforated plate member.

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